

## WEST Search History

DATE: Thursday, November 30, 2006

Hide?	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
		<i>DB=PGPB; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L11	L10 and ruthenium or osmium	9968
<input type="checkbox"/>	L10	(golf club head or golf club shaft and polyolefin and metathesis or ring opened).clm.	155206
<input type="checkbox"/>	L9	L8 and carbene near4 catalyst	24
<input type="checkbox"/>	L8	(polyolefin and metathesis and ruthenium or osmium and silicone or siloxane or polysiloxane).clm.	5624
		<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L7	(526/171 )![CCLS]	526
<input type="checkbox"/>	L6	(526/283 )![CCLS]	601
<input type="checkbox"/>	L5	(524/731 )![CCLS]	402
<input type="checkbox"/>	L4	(524/554 )![CCLS]	141
<input type="checkbox"/>	L3	(473/282 )![CCLS]	189
<input type="checkbox"/>	L2	(473/316 )![CCLS]	242
<input type="checkbox"/>	L1	(473/349 )![CCLS]	859

END OF SEARCH HISTORY

S/N 09/312,811

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 15:00:01 ON 30 NOV 2006

=> set abbr on perm  
SET COMMAND COMPLETED

=> set plurals on perm  
SET COMMAND COMPLETED

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 15:00:39 ON 30 NOV 2006  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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FILE COVERS 1907 - 30 Nov 2006 VOL 145 ISS 23  
FILE LAST UPDATED: 29 Nov 2006 (20061129/ED)

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=> e giardello michael/au  
E1 1 GIARDDINA D/AU  
E2 1 GIARDELLO GIANLUCA/AU  
E3 1 --> GIARDELLO MICHAEL/AU  
E4 16 GIARDELLO MICHAEL A/AU  
E5 1 GIARDELLO MICHAEL ALBERT/AU  
E6 8 GIARDETTI G/AU  
E7 3 GIARDETTI GELASIO/AU  
E8 1 GIARDI ANNA/AU  
E9 1 GIARDI C/AU  
E10 1 GIARDI CECILIA/AU  
E11 1 GIARDI I/AU  
E12 2 GIARDI ITALO/AU

=> s e4  
L1 16 "GIARDELLO MICHAEL A"/AU

=> d l1 1-16 ibib abs

L1 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

S/N 09/312,811

=> file uspatall caplus japio  
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
58.63	58.84

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY	TOTAL SESSION
-12.75	-12.75

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FILE 'USPATFULL' ENTERED AT 15:07:11 ON 30 NOV 2006  
CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 15:07:11 ON 30 NOV 2006  
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FILE 'JAPIO' ENTERED AT 15:07:11 ON 30 NOV 2006  
COPYRIGHT (C) 2006 Japanese Patent Office (JPO)- JAPIO

=> s (metathesis or metathetic? or ring(1w)open?) (4a) (olefin or cycloolefin or dicyclopentadiene or dcpd)

L4 6670 (METATHESIS OR METATHETIC? OR RING(1W) OPEN?) (4A) (OLEFIN OR CYCLOOLEFIN OR DICYCLOPENTADIENE OR DCPD)

=> s (tough? or hard? or impact?) (s) (silicone or siloxane or polysiloxane)

L5 47030 (TOUGH? OR HARD? OR IMPACT?) (S) (SILICONE OR SILOXANE OR POLYSILOXANE)

=> s l4 and l5

L6 47 L4 AND L5

=> s l4 and (ruthenium or osmium) (s) (catalys? or catalyz?)

L7 1664 L4 AND (RUTHENIUM OR OSMIUM) (S) (CATALYS? OR CATALYZ?)

=> s l5 and l7

L8 21 L5 AND L7

=> d l8 1-21 ibib abs

L8 ANSWER 1 OF 21 USPATFULL on STN

ACCESSION NUMBER: 2006:195755 USPATFULL

TITLE: Method for treatment of film or sheet

INVENTOR(S): Reiba, Tsutomu, c/o JSR Corporation, 6-10, Tsukiji  
5-chome, Chuo-ku, Tokyo, JAPAN 104-8410  
Nakazawa, Kazuyoshi, Tokyo, JAPAN

Mori, Yoshihiro, Tokyo, JAPAN

Sawada, Katsutoshi, Tokyo, JAPAN

Oshima, Noboru, Tokyo, JAPAN

PATENT ASSIGNEE(S): JSR Corporation, Tokyo, JAPAN, 104-8410 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006166511	A1	20060727
APPLICATION INFO.:	US 2004-549278	A1	20040225 (10)
	WO 2004-JP2211		20040225
			20050913 PCT 371 date

NUMBER

DATE

S/N 09/312,811

fluorine-containing polymer, and uses of the fluorine-containing polymer. The fluorine-containing polymer has at least a repeated unit structure represented by the following formula (1) and has an absorption coefficient of not more than 3.0  $\mu\text{m}\cdot\text{sup}\cdot^{-1}$  at 157 nm of ultraviolet rays. ##STR1##

wherein R.<sup>1</sup> to R.<sup>12</sup> are each fluorine, a fluorine-containing alkyl group of 1 to 20 carbon atoms, or the like; X.<sup>1</sup> is --CR.<sup>a</sup>R.<sup>b</sup>--, --NR.<sup>a</sup>-- or --PR.<sup>a</sup>-- (R.<sup>a</sup> and R.<sup>b</sup> are each fluorine, a fluorine-containing alkyl group of 1 to 20 carbon atoms, hydrogen, --O--, --S--, an alkyl group of 1 to 20 carbon atoms, or the like); at least one of R.<sup>1</sup> to R.<sup>12</sup> and X.<sup>1</sup> is fluorine or a fluorine-containing group; and n is 0 or an integer of 1 to 3.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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(FILE 'HOME' ENTERED AT 15:00:01 ON 30 NOV 2006)

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FILE 'CAPLUS' ENTERED AT 15:00:39 ON 30 NOV 2006

E GIARDELLO MICHAEL/AU

L1 16 S E4  
L2 1 S E3  
L3 1 S E5

FILE 'USPATFULL, USPAT2, CAPLUS, JAPIO' ENTERED AT 15:07:11 ON 30 NOV 2006

L4 6670 S (METATHESIS OR METATHETIC? OR RING(1W)OPEN?) (4A) (OLEFIN OR CY  
L5 47030 S (TOUGH? OR HARD? OR IMPACT?) (S) (SILICONE OR SILOXANE OR POLYS  
L6 47 S L4 AND L5  
L7 1664 S L4 AND (RUTHENIUM OR OSMIUM) (S) (CATALYS? OR CATALYZ?)  
L8 21 S L5 AND L7

=> s l7 and golf(2a)club##

L9 9 L7 AND GOLF(2A) CLUB##

=> d l9 1-9 ibib abs

L9 ANSWER 1 OF 9 USPATFULL on STN

ACCESSION NUMBER: 2006:61317 USPATFULL  
TITLE: Infusion of cyclic olefin resins into porous materials  
INVENTOR(S): Cruce, Christopher J., Poway, CA, UNITED STATES  
Filice, Gary W., Van Nuys, CA, UNITED STATES  
Giardello, Michael A., Pasadena, CA, UNITED STATES  
Stephen, Anthony R., South Pasadena, CA, UNITED STATES  
Trimmer, Mark S., Monrovia, CA, UNITED STATES  
PATENT ASSIGNEE(S): Materia Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006052487	A1	20060309
APPLICATION INFO.:	US 2005-260754	A1	20051026 (11)
RELATED APPLN. INFO.:	Division of Ser. No. US 2002-233066, filed on 30 Aug 2002, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-316290P	20010830 (60)
DOCUMENT TYPE:	Utility	

S/N 09/312,811

using a ruthenium or osmium metal carbene catalyst, wherein the one or more density modulators are thermoplastic microspheres.

54. A method of modulating the density of a polycyclic olefin resin matrix comprising: (a) reacting a cyclic olefin with a ruthenium or osmium metal carbene catalyst to form a reaction mixture, wherein the catalyst is of the formula: ##STR6## wherein: M is ruthenium or osmium; X and X.sup.1 are either the same or different and are any anionic ligand; L and L.sup.1 are either the same or different and are any neutral electron donor; R and R.sup.1 are either the same or different and are each independently hydrogen or a substituent selected from the group consisting of C.sub.1-C.sub.20 alkyl, C.sub.2-C.sub.20 alkenyl, C.sub.2-C.sub.20 alkynyl, aryl, C.sub.1-C.sub.20 carboxylate, C.sub.1-C.sub.20 alkoxy, C.sub.2-C.sub.20 alkenyloxy, C.sub.2-C.sub.20 alkynyloxy, aryloxy, C.sub.2-C.sub.20 alkoxy carbonyl, C.sub.1-C.sub.20 alkylthio, C.sub.1-C.sub.20 alkylsulfonyl and C.sub.1-C.sub.20 alkylsulfinyl, wherein each of the substituents is unsubstituted or substituted with one or more substituted or unsubstituted moieties selected from the group consisting of C.sub.1-C.sub.20 alkyl, C.sub.1-C.sub.10 alkoxy, and aryl; and (b) adding a density modulator to the reaction mixture.

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FILE 'CAPLUS' ENTERED AT 15:00:39 ON 30 NOV 2006  
E GIARDELLO MICHAEL/AU

L1 16 S E4  
L2 1 S E3  
L3 1 S E5

FILE 'USPATFULL, USPAT2, CAPLUS, JAPIO' ENTERED AT 15:07:11 ON 30 NOV 2006  
L4 6670 S (METATHESIS OR METATHETIC? OR RING(1W)OPEN?) (4A) (OLEFIN OR CY  
L5 47030 S (TOUGH? OR HARD? OR IMPACT?) (S) (SILICONE OR SILOXANE OR POLYS  
L6 47 S L4 AND L5  
L7 1664 S L4 AND (RUTHENIUM OR OSMIUM) (S) (CATALYS? OR CATALYZ?)  
L8 21 S L5 AND L7  
L9 9 S L7 AND GOLF(2A) CLUB##

=> s l4 and golf(2a)club##  
L10 11 L4 AND GOLF(2A) CLUB##

=> d l10 1-11 ibib abs

L10 ANSWER 1 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2006:61317 USPATFULL

TITLE: Infusion of cyclic olefin resins into porous materials

INVENTOR(S): Cruce, Christopher J., Poway, CA, UNITED STATES

Filice, Gary W., Van Nuys, CA, UNITED STATES

Giardello, Michael A., Pasadena, CA, UNITED STATES

Stephen, Anthony R., South Pasadena, CA, UNITED STATES

Trimmer, Mark S., Monrovia, CA, UNITED STATES

PATENT ASSIGNEE(S): Materia Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006052487	A1	20060309

S/N 09/312,811

hardness and/or toughness modulators (blended or as part of polymer). Poly(dicyclopentadiene) containing 3 parts poly(dimethylsiloxane) (Shin Etsu DMF-30) had notched Izod impact strength >4 ft.-lb/in. and heat distortion temperature >130°.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1992:635460 CAPLUS

DOCUMENT NUMBER: 117:235460

TITLE: Golf clubheads and their manufacture

INVENTOR(S): Miyama, Tadahiro; Sakai, Koji; Watanabe, Mitsuya; Yamada, Hikoichiro

PATENT ASSIGNEE(S): Mitsuno K. K., Japan; Teijin Hercules Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04161176	A2	19920604	JP 1990-289947	19901025
PRIORITY APPLN. INFO.:			JP 1990-289947	19901025

AB Clubheads with good abrasion resistance and vibration damping properties are manufactured by pouring a metathesis polymerization catalyst and dicyclopentadiene-containing metathesis polymerizable monomers (which produce a crosslinked polymer) into a clubhead mold and hardening by reaction within the mold. Adding a mixture of 96.5:3.5 dicyclopentadiene (I) and ethylidenenorbornene (II) to a 100 mL mixture of dioctylaluminum iodide 5.70, trioctylaluminum 31.17, diglyme 7.92, pyridine 3.95 g, and I (an amount to make 100 mL mixture) gave a reactive solution (A) containing 0.009M Al. Stirring WCl<sub>6</sub> 19.80, tert-BuOH 0.925, and nonylphenol 11.05 g in 100 mL PhMe, mixing with 10 g acetylacetone while purging with N<sub>2</sub>, and adding 96.5:3.5 I and II mixture to the catalyst solution gave a reactive solution (B) containing 0.003M W. Pouring solution A and soln

B through a dynamic mixer into a mold and hardening within the mold gave a clubhead with notched impact strength 70 kg-cm/cm, heat distortion temperature 116°, and flexural modulus 18,000 kg/cm<sup>2</sup>, vs. 12-15, 80-90, and 15,000-18,000, resp., for a control prepared from conventional ABS resin.

=> d l10 11 all

L10 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1992:635460 CAPLUS

DN 117:235460

ED Entered STN: 13 Dec 1992

TI Golf clubheads and their manufacture

IN Miyama, Tadahiro; Sakai, Koji; Watanabe, Mitsuya; Yamada, Hikoichiro

PA Mitsuno K. K., Japan; Teijin Hercules Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM A63B053-04

ICS C08J005-24

ICA C08G061-08

ICI C08L057-00

CC 38-3 (Plastics Fabrication and Uses)

FAN.CNT 1

S/N 09/312,811

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04161176	A2	19920604	JP 1990-289947	19901025
PRAI	JP 1990-289947		19901025		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 04161176	ICM	A63B053-04
	ICS	C08J005-24
	ICA	C08G061-08
	ICI	C08L057-00
	IPCI	A63B0053-04 [ICM,5]; C08J0005-24 [ICS,5]; C08G0061-08 [ICA,5]; C08G0061-00 [ICA,5,C*]; C08L0057-00 [ICI,5]

AB Clubheads with good abrasion resistance and vibration damping properties are manufactured by pouring a metathesis polymerization catalyst and dicyclopentadiene-containing metathesis polymerizable monomers (which produce a crosslinked polymer) into a clubhead mold and hardening by reaction within the mold. Adding a mixture of 96.5:3.5 dicyclopentadiene (I) and ethylidenenorbornene (II) to a 100 mL mixture of dioctylaluminum iodide 5.70, trioctylaluminum 31.17, diglyme 7.92, pyridine 3.95 g, and I (an amount to make 100 mL mixture) gave a reactive solution (A) containing 0.009M Al. Stirring WCl6 19.80, tert-BuOH 0.925, and nonylphenol 11.05 g in 100 mL PhMe, mixing with 10 g acetylacetone while purging with N, and adding 96.5:3.5 I and II mixture to the catalyst solution gave a reactive solution (B) containing 0.003M W. Pouring solution A and soln

B through a dynamic mixer into a mold and hardening within the mold gave a clubhead with notched impact strength 70 kg-cm/cm, heat distortion temperature 116°, and flexural modulus 18,000 kg/cm2, vs. 12-15, 80-90, and 15,000-18,000, resp., for a control prepared from conventional ABS resin.

ST metathesis polymn golf clubhead manuf; dicyclopentadiene ethylidenenorbornene copolymer golf clubhead

IT Molding of plastics and rubbers  
(of dicyclopentadiene-containing monomers, metathesis polymerization for, for golf clubheads)

IT Sporting goods  
(golf club heads, manufacture of, vibration-damping and abrasion-resistant, by metathesis polymerization)

IT Polymerization  
(metathetic, of dicyclopentadiene-containing monomers, for manufacture of golf clubheads)

IT 113277-76-2P, Dicyclopentadiene-ethylidenenorbornene copolymer

RL: PREP (Preparation)

(golf clubheads, manufacture of, by metathesis polymerization within molds)

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
175.35	234.19

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-2.25	-15.00

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STN INTERNATIONAL LOGOFF AT 15:29:55 ON 30 NOV 2006